1. Product Description



Isolated LED Driver for Class I LED Luminaire

Category: AC100-277V, dimmable, flicker-free

Property: 0-10V/PWM/Rx dim, active PFC, high PF, high efficiency, low THD

Application: indoor office lighting, decorative lighting, commercial lighting

& residential lighting. It's specially designed for tri-proof light.

Warranty: 5 years (Please refer to the warranty condition.)

Certificate: UL, FCC





2. Technical Data

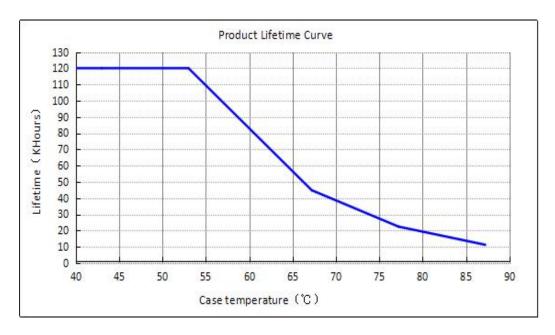
	E-II M - J-I N	LF-GLD055YS	LF-GLD055YS	LF-GLD055YS	LF-GLD055YS	LF-GLD055YS						
	Full Model Number	1100U	1150U	1200U	1250U	1300U						
	Output Voltage		25-42Vdc									
Output	Output Current	1100mA	1150mA	1200mA	1250mA	1300mA						
	Ripple Voltage	<1V										
	Current Tolerance	±5%										
	Start-up Time	100Vac<1S, 230V	ac <0.5S, 277Vac <0	0.5S								
	Temperature Drift	±10%										
	Line Regulation	±5%										
	Line Regulation ±5%											
	Rated Input Voltage											
	Frequency	47Hz-63Hz										
	Input Current	0.75A Max										
		≥0.98/120Vac	≥0.98/120Vac	≥0.98/120Vac	≥0.98/120Vac	≥0.98/120Vac						
	Power Factor	≥0.95/230Vac	≥0.95/230Vac	≥0.95/230Vac	≥0.95/230Vac	≥0.95/230Va						
.		≥0.9/277Vac	≥0.9/277Vac	≥0.9/277Vac	≥0.9/277Vac	≥0.9/277Vac						
Input	THD	≤20%										
		≥86%/120Vac	≥86%/120Vac	≥86%/120Vac	≥86%/120Vac	≥86%/120Vac						
	Efficiency	≥88%/230Vac	≥88%/230Vac	≥88%/230Vac	≥88%/230Vac	≥88%/230Vac						
		≥87%/277Vac	≥87%/277Vac	≥87%/277Vac	≥87%/277Vac	≥87%/277Vac						
	In-Rush Current	I<60A/350uS@230Vac										
	Stand-by Power	≤1.0W @120Vac, @230Vac or @ 277Vac										
Protective	Open Circuit Protection	Open circuit voltage ≤ 55Vdc										
Feature	Short Circuit Protection	Hiccup mode (auto-recovery)										
	Working Temperature	-30°C ~+50°C										
	Working Humidity	20-90%RH (no condensation)										
Environment Condition	Storage Temperature/Humidity	-40°C ~ +80°C (6 months under the class I environment); 10-90%RH (no condensation)										
	Atmospheric Pressure	86-106KPa										
	Certificate	UL, FCC										
	Hi-Pot Test	I/P-O/P:3.75KVac&5mA&60S; I/P-PG:1.6KVac&5mA&60S; O/P-PG:0.5KVac&5mA&60										
Safety &	Insulation Resistance	I/P-O/P,I/P-PG,O/P-PG: > 100MΩ@500VDC										
Norm	Surge Rating	Comply with IEC6	51000-4-5 (L-N:1KV	, L/N-PG:2KV)								
	EMI	FCC Part 15 Class B										
	EMS	Comply with EN61000-4-2,3,4,5,6,8,11; EN61547										
	Packing (Weight)	Carton size: 385*2	285*210mm (L*W*F	H); Net weight: 220g	±5%/pc; 9.95KG±5%	%/ctn; 4 2 pcs/ctn						
Others	IP Rating	١										
Others	Warranty	5 years (Tc 67)									



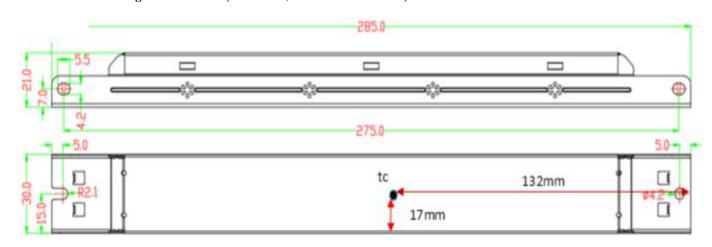
Testing Equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: TH9201B, stroboscope (flicker index tester) 60N-01, etc.
Testing Condition	If there's no special statement, the parameters above, including the power factor, THD and efficiency, are the test results under the ambient temperature 25°C and humidity 50%, input 120Vac, 230Vac, 277Vac and 90% load.
Additional Remark	 It is recommended that customer should install an over & under voltage protection and surge protection device to ensure safety before connecting to electricity. The PC cover, housing, end caps and other parts of the LED driver inside the LED luminaire must conform to UL94 V-0 flammability standard or above. As an accessory, the LED driver is not the only factor determining the EMC performance of the LED luminaire. The structure and the wiring of the light fixture are also relevant. Thus it's strongly recommended the LED luminaire manufacturer should re-confirm the EMC of the whole LED luminaire.

3. Product Lifetime Curve

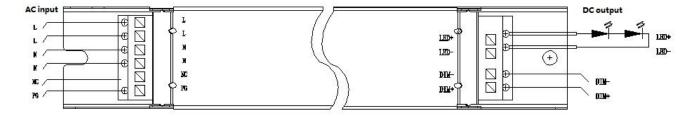
The curve below illustrates the driver's lifetime data when the LED driver's Max. case temperature reaches 40°C, 50°C, 60°C, 70°C and 80°C.



4. Dimensional Drawing with Tc Point (Unit: mm; Tolerance: +0.5mm): 285*30*21mm



5. Wiring Diagram:



6. Dimming

Three dimming modes in one driver. The test data below are for your reference only.

1) 0-10V dim: dimming range 0%~100%. (Tested with LIFUD 0-10V dimmer.)

Dimming Voltage	0-0.3V	0.5V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of Rated Current	OFF	ON	13%	25%	36%	47%	58%	70%	81%	92%	99%	99%	95%-105%

2) PWM dim: dimming range 0%~100%. Voltage amplitude: 10V. The frequency of PWM signal is 300Hz~3KHz. (Tested with PWM signal generator: RIGOL.)

PWM Signal	0-6%	7%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of Rated Current	OFF	ON	10%	15%	28%	39%	50%	60%	71%	92%	99%	99%	95%-105%

3) Resistance dim: dimming range $0\%\sim100\%$. Resistance range: $10k\Omega\sim100k\Omega$. (Tested with LEVITON dimmer.)

Rx Range	0-5K	6K	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
Percentage of Rated Current	OFF	ON	12%	23%	34%	46%	58%	69%	79%	92%	99%	99%	95%-105%

Remark: The "Iout percentage" above are typical values.